PURAFIL ENVIRONMENTAL CORROSIVITY REPORT

14-Jun-2010

Company: 111003

Room Area ID: Reference #:



 Sales Order #:
 C002682

 CCC Panel #:
 P67421

 Date In:
 20-May-2010

 Date Out:
 03-Jun-2010

Days In Service: 14

CCC Panel # P67421

ISA Class G2
Moderate

Copper Corrosion 591 Å/30 Days

Silver Corrosion 1603 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67421

The electrolytic reduction analysis on Corrosion Classification Coupon #P67421 shows the presence of moderate concentrations of contaminants in the environment tested. The hydrogen sulfide level is expected to range between 3 and 10 ppb and the sulfur dioxide level between 10 and 100 ppb. The effects of corrosion are measurable and may be a factor in determining equipment reliability.

Your local representative for additional information and assistance is:

Environmental Health and Eng

117 Fourth Avenue, Needham MA 02494, USA

tminegishi@eheinc.com

Purafil, Inc. / 2654 Weaver Way, Doraville GA 30340 USA / (770) 662-8545 / (770) 263-6922 Email: purafil@purafil.com / Internet: http://www.purafil.com

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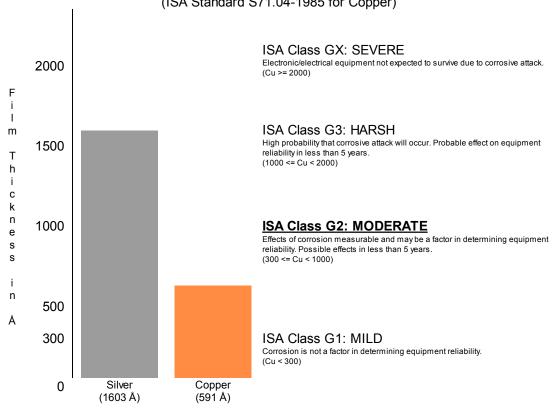
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PURAFIL CCC # P67421 Analysis Results

Corrosion Film Composition Projections					Gold Coupon - Magnified 20x
		<u>30 Days</u>	1 Year	<u>5 Year</u>	Magnined 20X
Copper Fili Cu ₂		495 Å	1727 Å	3863 Å	
Cu ₂	<u>2</u> O	96 Å	334 Å	747 Å	
Unk	knowns	0 Å	0 Å	0 Å	
Tota	als	591 Å	2061 Å	4610 Å	
Silver Films		0 Å	0 Å	0 Å	
AgC		UA	UA	UA	
Ag ₂	<u>2</u> S	1603 Å	19522 Å	97610 Å	
Unk	knowns	0 Å	0 Å	0 Å	
Tota	als	1603 Å	19522 Å	97610 Å	
Gold Pore Corrosion: Note: 1000 Å = 0.1 micron					

Equipment Reliability Correlation

(ISA Standard S71.04-1985 for Copper)



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